

**REMARKS**

Claims 1-19 are pending in the above-referenced patent application. Claims 1, 4, 6, 7, 8, 13 and 14-19 have been amended, and no claims have been added or canceled.

In the Office Action, dated January 3<sup>rd</sup>, 2005, the Examiner objected to claims 5, 9, 10, 13 and 18 as being dependent on a rejected base claim; rejected claims 1, 7 and 14 under 35 U.S.C. 112, second paragraph; and rejected claims 1-4, 6-8, 11, 12, 14-17 and 19 under 35 U.S.C. 102(b) as being anticipated by King et al (U.S. Patent No. 4,482,975, hereinafter "King"). These objections and rejections are respectfully traversed.

The Examiner has rejected claims 1, 7 and 14 under 35 U.S.C. 112, second paragraph. Applicant has amended claims 1, 7 and 14, and Applicant believes the amendments obviate the rejection. It is respectfully requested that the Examiner withdraw the rejection of claims 1, 7 and 14, as amended. It is noted that there is adequate support in the specification for the amendments made to the rejected claims. Additionally, changes to claims 1, 7 and 14 either do not affect the scope of claimed subject matter or the changes broaden scope, and no new matter is introduced by these amendments. Likewise, because scope is not affected or is broadened, there is no prosecution history estoppel.

The Examiner has rejected claims 1-4, 6-8, 11, 12, 14-17 and 19 under 35 U.S.C. 102(b) as being anticipated by King. This rejection by the Examiner is respectfully traversed. It is noted that claims 1, 4, 6-8, 14-17 and 19 have been amended. It is additionally noted that there is adequate support in the specification for the amendments made to the rejected claims. Further, changes to claims 1, 4, 6-8, 14-17 and 19 do not affect the scope of claimed subject matter or the changes

broaden scope, and no new matter is introduced by these amendments. Likewise, because scope is not affected or is broadened, there is no prosecution history estoppel.

Applicant begins with claim 1, as amended. Applicant respectfully submits that King does not disclose each and every element of claim 1, as amended and, therefore, a *prima facie* case under 35 U.S.C. 102(b) has not been established. As just an example, King does not show or describe "calculating said low-bit portion of said digital signal with said factor to get a low-bit signal, and combining said high-bit signal with said low-bit signal to get an output signal." Conversely, King describes utilizing an offset obtained from a lookup of a particular number of least significant bits of an input on a PROM lookup table to approximate the value of a predetermined mathematical function.

It is noted that many other bases for traversing the rejection could be provided, but Applicant believes that this ground is sufficient. It is respectfully requested that the Examiner withdraw the rejection as to claim 1.

Applicant respectfully submits that King does not disclose each and every element of the rejected claims, a *prima facie* case under 35 U.S.C. 102(b) has not been established, and claim 1 is in condition for allowance. Claims 2-4 and 6 depend from and include all limitations of claim 1, as amended, and, therefore are in a condition for allowance for at least the same reasons as claim 1, as amended. Additionally, claims 14-19, as amended, include limitations similar to those of claim 1, as amended, and are, therefore, in a condition for allowance for at least the same reasons as claim 1, as amended.

Applicant respectfully submits that King does not disclose each and every element of claim 7, as amended and, therefore, a *prima facie* case under 35 U.S.C. 102(b) has not been established. As just an example, King does not show or describe "low-bit calculation means response to said digital signal for receiving and calculating a low-bit portion of said digital signal to output a low-bit signal, and combination means for combining said high-but signal with said low-bit signal to output an output signal for a controller." As stated previously, King describes utilizing an offset obtained from a lookup of a particular number of least significant bits of an input on a PROM lookup table to approximate the value of a predetermined mathematical function.

It is noted that many other bases for traversing the rejection could be provided, but Applicant believes that this ground is sufficient. It is respectfully requested that the Examiner withdraw the rejection as to claim 7.

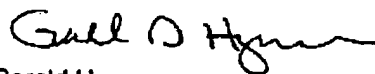
Applicant respectfully submits that King does not disclose each and every element of the rejected claims, a *prima facie* case under 35 U.S.C. 102(b) has not been established, and claim 7 is in condition for allowance. Additionally, claims 8, 11 and 12 depend from and include all limitations of claim 7, as amended, and are in a condition for allowance for at least the same reasons as claim 7.

### CONCLUSION

In view of the foregoing, it is respectfully submitted that all of the claims pending in this patent application, as amended, are in condition for allowance. If the Examiner has any questions, she is invited to contact the undersigned at (503) 640-6475. Reconsideration of this patent application and early allowance of all the claims is respectfully requested.

Please charge any shortages and credit any overcharges of any fees required for this submission to Deposit Account number 50-3130.

Respectfully submitted,

  
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